

Title (en)  
Crankset based bicycle power measurement

Title (de)  
Auf dem Kurbelsatz basierende Fahrrad-Leistungsmessung

Title (fr)  
Mesure de puissance de velo a partir du pedalier

Publication  
**EP 2474343 B1 20160817 (EN)**

Application  
**EP 12163000 A 20071106**

Priority  
• EP 07844921 A 20071106  
• US 86443106 P 20061106

Abstract (en)  
[origin: WO2008058164A2] The present application relates to an input torque measuring device for a drive train of a bicycle. The drive train includes a first crank arm and a second crank arm. An inboard end of each crank arm is rotatably mounted to the bicycle at a bottom bracket of the bicycle. At least one chain ring is configured to rotate a driven wheel of the bicycle. A spider is connected to the first crank arm adjacent the bottom bracket and extends out to the at least one chain ring. The spider is configured to transmit force applied to the crank arms directly to the at least one chain ring. The spider may include a plurality of sensors configured to respond to the force applied by the spider to the at least one chain ring. The sensors produce an electronic signal relative to the force transmitted by the spider to the at least one chain ring and a processor configured to receive the electronic signals from each sensor of the spider.

IPC 8 full level  
**A63B 71/06** (2006.01); **A63B 22/06** (2006.01); **G01L 3/14** (2006.01)

CPC (source: EP US)  
**B62J 45/411** (2020.02 - EP); **B62J 45/421** (2020.02 - EP); **B62M 3/00** (2013.01 - EP); **B62M 9/00** (2013.01 - EP);  
**G01L 3/1471** (2013.01 - EP US); **G01L 3/1478** (2013.01 - EP US); **A63B 2071/0652** (2013.01 - EP US)

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DOCDB simple family (publication)  
**WO 2008058164 A2 20080515; WO 2008058164 A3 20080731**; DE 202007019409 U1 20120508; EP 2104537 A2 20090930;  
EP 2104537 A4 20111221; EP 2104537 B1 20130403; EP 2474343 A1 20120711; EP 2474343 B1 20160817; US 2009120208 A1 20090514;  
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**US 2007083845 W 20071106**; DE 202007019409 U 20071106; EP 07844921 A 20071106; EP 12163000 A 20071106;  
US 201113252740 A 20111004; US 93589107 A 20071106